1. A method for downregulating HIV-1 fusion cofactor expression in a T cell, comprising contacting the T cell with a solid phase surface comprising an anti-CD28 antibody and an anti-CD3 antibody *in vitro*, thereby downregulating HIV-1 fusion cofactor expression in the T cell.

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55. A method for downregulating CCR5 expression in a T cell, comprising contacting the T cell with a solid phase surface comprising an anti-CD28 antibody and an anti-CD3 antibody *in vitro*, thereby downregulating CCR5 expression in the T cell.

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60. A method for downregulating CCR5 expression in a T cell, comprising contacting the T cell with a solid phase surface comprising an anti-CD28 antibody and an anti-CD3 antibody *in vivo*, thereby downregulating CCR5 expression in a T cell.

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75. A method for downregulating HIV-1 fusion cofactor expression in a T cell, comprising contacting the T cell with a solid phase surface comprising an anti-CD28 antibody and an anti-CD3 antibody *in vivo*, thereby downregulating HIV-1 fusion cofactor expression in the T cell.

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- 87. The method of any one of claims 1, 55, 60, or 75, wherein the anti-CD3 antibody is an anti-human CD3 monoclonal antibody.
- 88. The method of any one of claims 1, 55, 60, or 75, wherein the anti-CD28 antibody is an anti-human CD28 monoclonal antibody.
- 89. The method of any one of claims 1, 55, 60, or 75, wherein said solid phase surface is a bead.

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- 90. The method of claim 89, wherein the bead is a magnetic immunobead.
- 91. The method of any one of claims 1 or 55, wherein said solid phase surface is a tissue culture dish.
- 92. The method of any one of claims 1, 55, 60, or 75, wherein the anti-CD3 antibody and the anti-CD28 antibody are immobilized on the solid phase via a covalent modification.
- 93. The method of any one of claims 1, 55, 60, or 75, wherein the anti-CD3 antibody and the anti-CD28 antibody are immobilized on the solid phase surface via an avidin-biotin complex.